BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Detailed Estimate for the Work of Improvements to Road and Drains at Jakkur in Ward No. 05 Byatarayanapura Sub Division

		Estimate Cost Rs.							2000000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in Hard Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 141/ Item No. 19.2/ PWD SR 2016-17	Cum							
	For Desilting of Drain								
			3X2	65.00	0.40	0.20	31.20		
			2X2	65.00	0.40	0.20	20.80		
			1X2	120.00	0.40	0.20	19.20		
	For Culverts		3	6.50	1.95	1.05	39.93		
							111.13	86.92	**9659.00**
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	**86.92**							
2	Removing B.S Slab of Drain and stacking Page No. 25/ Item No. 5.32/ PWD SR 2016-17	Sqm							
			3X2	65.00	1.65		643.50		
			2X2	65.00	1.65		429.00		
			1X2	120.00	1.65		396.00		
							1468.50		
	Deduct 15% Missing Slabs						220.28		
							1248.23	65.72	**82033.00**
	Basic Rate	62.00							
	Area Weightage @ 6%	3.72							
	Total	**65.72**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25/ Item No. 5.33/ PWD SR 2016-17	Sqm							
			Qty Vide Item No.3				1248.23		
							1248.23	**80.56**	**100557.00**
	Basic Rate	76.00							
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2016-17	**Sqm**							
	For Missing slabs (15%)		Missing Slabs				220.28		
							220.28	665.68	**146633.00**
	Basic Rate	628.00							
	Area Weightage @ 6%	37.68							
	Total	**665.68**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17	**Cum**							
	For Culverts		3	6.50	1.95	0.15	5.70		
							5.70	5159.02	**29426.00**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
6	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2016-17	cum							
	For Culverts		3X2	6.50	0.60	0.45	10.53		
							10.53	4438.22	**46734.00**
	Basic Rate	4187.00							
	Area Weightage @ 6%	251.22							
	Total	**4438.22**							
7	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2016-17	**Sqm**							
	For Culverts		3X2	6.50	0.50	0.45	8.78		
							8.78	**5305.30**	**46554.00**
	Basic Rate	5005.00							
	Area Weightage @ 6%	300.30							
	Total	**5305.30**							
8	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/ PWD SR 2016-17	**Sqm**							
	For Culverts		3	6.50	0.60		11.70		
	For Sides		3X2	6.50	0.23		8.97		
			3X2	1.65	0.23		2.28		
							22.95	**271.36**	**6227.00**
	Basic Rate	**256.00**							
	Area Weightage @ 6%	15.36							
	Total	**271.36**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
9	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2016-17	cum							
	For Culverts		3X2	6.50	0.50	0.10	1.95		
	Vent Bed		3	6.50	0.60	0.10	1.17		
							3.12	5598.92	**17469.00**
	Basic Rate	5282.00							
	Area Weightage @ 6%	316.92							
	Total	**5598.92**							
10	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.1/ PWD SR 2016-17	Sqm							
	For Culverts		3X2	6.50		0.50	19.50		
							19.50	102.82	**2005.00**
	Basic Rate	97.00							
	Area Weightage @ 6%	5.82							
	Total	**102.82**							
11	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	**Cum**							
	For Culverts		3	6.50	1.65	0.23	7.40		
							7.40	6371.66	**47152.00**
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	**6371.66**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
12	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46.2/ PWD SR 2016-17	Qtl							
	0.75Ton/Cum		0.075	7.40			**0.56**	59413.00	**32975.00**
	Basic Rate	56050.00							
	Area Weightage @ 6%	3363.00							
	Total	**59413.00**							
13	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406, No. 154/ Item No. 20.18/ PWD SR 2016-17	Cum							
			3	65.00	5.50	0.20	214.50		
			2	65.00	5.50	0.20	143.00		
			1	120.00	5.50	0.20	132.00		
							489.50	1768.08	**865475.00**
	Basic Rate	1668.00							
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
14	KSRRB 500-4: providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specificationsDo- Medium Porosity MORTH chapter 5, No. 157/ Item No. 21.5/ PWD SR 2016-17	Sqm							
			3	65.00	5.50		1072.50		
			2	65.00	5.50		715.00		
			1	120.00	5.50		660.00		
							2447.50	59.36	**145284.00**
	Basic Rate	56.00							
	Area Weightage @ 6%	3.36							
	Total	**59.36**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. P. No. 159/ Item No. 21.20.1/ PWD SR 2016-17	Cum							
			3	65.00	5.50	0.025	26.81		
			2	65.00	5.50	0.025	17.88		
			1	120.00	5.50	0.025	16.50		
							61.19	6429.96	**393433.00**
	Basic Rate	6066.00							
	Area Weightage @ 6%	363.96							
	Total	**6429.96**							
16	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1				**111.13**		
							111.13	73.12	**8126.00**
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							
	PWD SR 2016-17 (P.118/I.17.1) For loading	68.00							
	Total	**73.12**							
							Grand Total		**1979742.00**
17	For 1% Third Party Inspection Charges								**19797.00**
18	Miscesallaneous Charges	L/S							461
								Total	**2000000.00**

Rupees Twenty Lakh(s) Only

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಬಾಗ

Executive Engineer 12/01
Byatarayanapura Division
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore

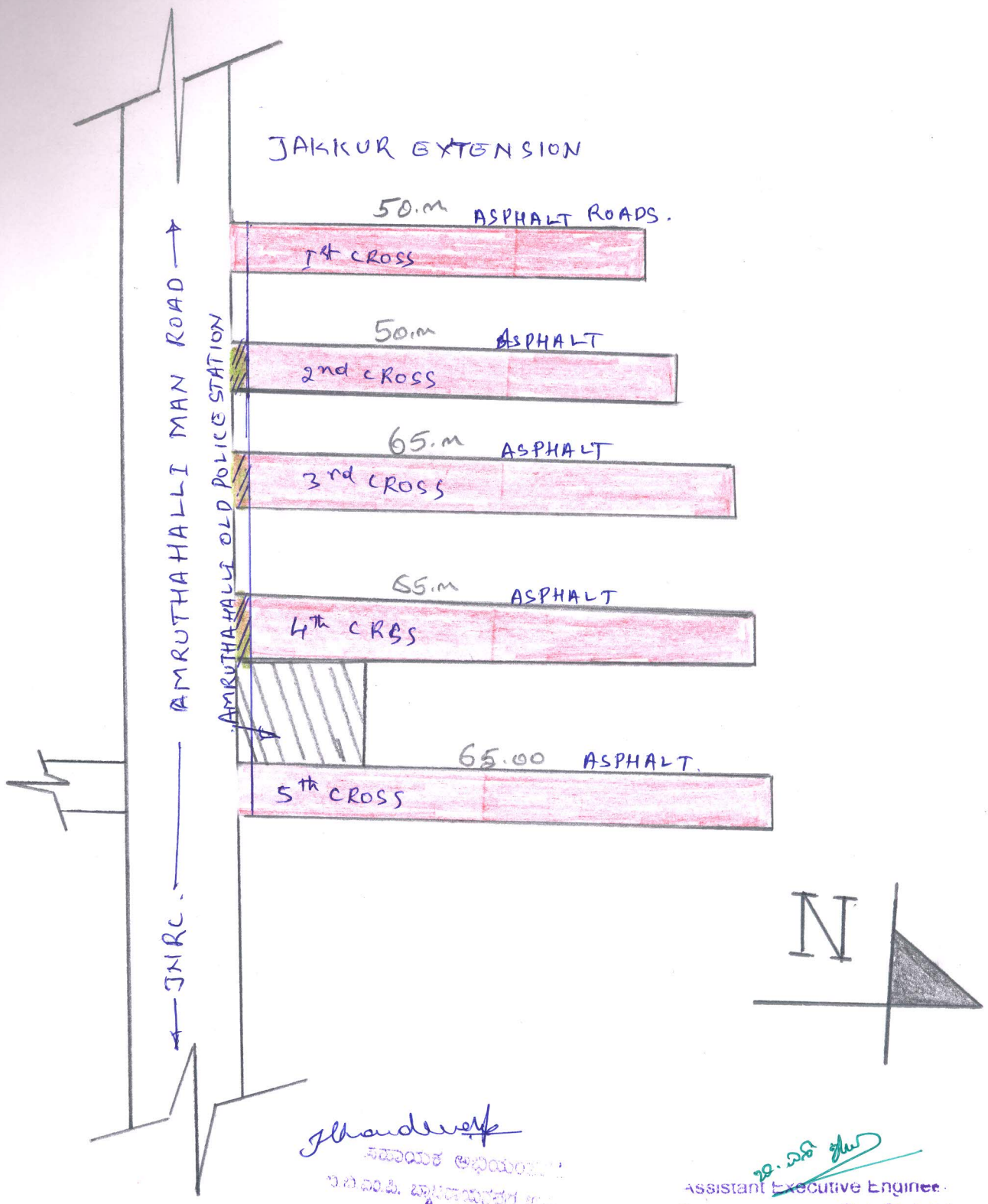
12/01

Administrative Approval
Accorded For ....20.00 lakh Rs.
Head of A/C.....P1771
CER NO :.....130. **Dt:** 12.01.17

TA CE (YNK)

TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
Head of A/c P-1771
Div. Ref. No. 113 12/01/17
AE
EE(BTP) 12/01

Name of Wk :- Improvements to Road and Drains at Jakkur Ward No.5. Byatarayanapura Sub Division.



Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore